

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of manufacturing a dental prosthesis, ~~characterized by comprising:~~

- a step of preparing a substrate of the dental prosthesis that is constituted by a dental molding material;
- a step of forming a back coating layer on at least a part of a surface of the substrate, by using a first porcelain that is constituted principally by ceramic;
- a step of forming a casting mold such that the substrate is disposed in the casting mold and such that a ~~predetermined~~ void is provided on a surface of the back coating layer; and
- a step of forming a cast coating layer on at least a part of a surface of the back coating layer, by pouring a second porcelain into the void at a ~~predetermined~~ casting temperature,

wherein the second porcelain ~~being is~~ constituted principally by ceramic whose composition is different from that of the ceramic of the first porcelain ~~and being characterized in such~~ that viscosity thereof of the second porcelain at the ~~predetermined~~ casting temperature is lower than that of the first porcelain.

2. (Currently Amended) The method ~~of manufacturing the dental prosthesis~~ according to claim 1,

- wherein the casting mold forming step includes:
 - a sub-step of forming, on at least a part of the surface of the back coating layer, a model layer made of a material that is eliminable by burning thereof,

a sub-step of embedding the model layer in a matrix constituting the casting mold; and

a sub-step of forming the casting mold, which is provided with the void corresponding to the model layer, by burning and eliminating the model layer after hardening the matrix.

3. (Currently Amended) The method ~~of manufacturing the dental prosthesis~~ according to claim 1, wherein the substrate is a frame made of metal or ceramic.

4. (Currently Amended) The method ~~of manufacturing the dental prosthesis~~ according to claim 1, wherein the first porcelain is provided by a porcelain whose viscosity at the casting temperature is at least 1.5 times as high as that of the second porcelain.

5. (Currently Amended) The method ~~of manufacturing the dental prosthesis~~ according to claim 1,

wherein the first porcelain has, as a main component, a glass composition that is essentially constituted by oxides having respective percentage contents as follows:

| | |
|--------------------------------|-------------------|
| SiO ₂ | 40-75 (mass %); |
| Al ₂ O ₃ | 10-20 (mass %); |
| K ₂ O | 5-15 (mass %); |
| Na ₂ O | 2-10 (mass %); |
| Li ₂ O | 0.1-2 (mass %); |
| ZrO ₂ | 0-7 (mass %); |
| CaO | 0-5 (mass %); |
| MgO | 0-5 (mass %); and |
| SnO ₂ | 0-30 (mass %); |

wherein the second porcelain has, as a main component, a glass composition that is essentially constituted by oxides having respective percentage contents as follows:

| | |
|--------------------------------|-------------------|
| SiO ₂ | 6-70 (mass %); |
| Al ₂ O ₃ | 10-20 (mass %); |
| K ₂ O | 5-15 (mass %); |
| Na ₂ O | 3-15 (mass %); |
| Li ₂ O | 0.1-3 (mass %); |
| ZrO ₂ | 0-3 (mass %); |
| CaO | 0.1-5 (mass %); |
| MgO | 0.1-5 (mass %); |
| B ₂ O ₃ | 0-3 (mass %); |
| CeO ₂ | 0-3 (mass %); and |
| Sb ₂ O ₃ | 0-7 (mass %). |

6. (Currently Amended) The method of ~~manufacturing the dental prosthesis~~ according to claim 1, wherein the viscosity of the first porcelain at the casting temperature ranges from 2×10^6 (cP) to 5×10^7 (cP), while the viscosity of the second porcelain at the casting temperature ranges from 1×10^6 (cP) to 3×10^7 (cP).

7. (Currently Amended) A kit for forming, on a surface of a substrate of a dental prosthesis, an armored portion constituted by at least two coating layers, the kit comprising:

a first material constituted principally by ceramic for preparing a first porcelain that forms a back coating layer on the surface of the substrate; and

a second material constituted principally by ceramic for preparing a second porcelain that forms, by casting, a coating layer on a surface of at least a part of the back coating layer,

wherein the second porcelain is characterized in that viscosity thereof of the second porcelain at a predetermined casting temperature is lower than that of the first porcelain constituted by the first material porcelain.

8. (Original) The kit according to claim 7, wherein the first and second materials are prepared such that the viscosity of the first porcelain at the casting temperature is at least 1.5 times as high as that of the second porcelain.

9. (Currently Amended) The kit according to claim 7,
wherein the first material has, as a main component, a glass composition that is essentially constituted by oxides having respective percentage contents as follows:

| | |
|--------------------------------|-------------------|
| SiO ₂ | 40-75 (mass %); |
| Al ₂ O ₃ | 10-20 (mass %); |
| K ₂ O | 5-15 (mass %); |
| Na ₂ O | 2-10 (mass %); |
| Li ₂ O | 0.1-2 (mass %); |
| ZrO ₂ | 0-7 (mass %); |
| CaO | 0-5 (mass %); |
| MgO | 0-5 (mass %); and |
| SnO ₂ | 0-30 (mass %); |

wherein ~~the ceramic of~~ the second material has, as a main component, a glass composition that is essentially constituted by oxides having respective percentage contents as follows:

| | |
|--------------------------------|-----------------|
| SiO ₂ | 60-70 (mass %); |
| Al ₂ O ₃ | 10-20 (mass %); |
| K ₂ O | 5-15 (mass %); |
| Na ₂ O | 3-15 (mass %); |
| Li ₂ O | 0.1-3 (mass %); |
| ZrO ₂ | 0-3 (mass %); |
| CaO | 0.1-5 (mass %); |
| MgO | 0.1-5 (mass %); |
| B ₂ O ₃ | 0-3 (mass %); |
| CeO ₂ | 0-3 (mass %); |
| Sb ₂ O ₃ | 0-7 (mass %). |

10. (Original) The kit according to claim 7, wherein the first and second materials are prepared such that the viscosity of the first porcelain at the casting temperature ranges from 2×10^6 (cP) to 5×10^7 (cP), while the viscosity of the second porcelain at the casting temperature ranges from 1×10^6 (cP) to 3×10^7 (cP).

11. (Currently Amended) A method of manufacturing a dental prosthesis, by fixing at least two ceramic layers onto a surface of a frame made of zirconia, wherein steps of forming the ceramic layers ~~are characterized by comprising:~~

a first step of fixedly forming, on the surface of the frame, a first ceramic layer (14; 60) of a ~~predetermined~~-first composition which contains, as main components, 66.0-72.0 (mass %) of SiO_2 , 13.5-17.8 (mass %) of Al_2O_3 , 0.05-0.31 (mass %) of Li_2O , 1.3-6.5 (mass %) of Na_2O , 8.7-12.5 (mass %) of K_2O , 0.1-0.5 (mass %) of CaO , 0.01-0.22 (mass %) of MgO , 0.1-0.6 (mass %) of Sb_2O_3 , 0-3 (mass %) of CeO_2 , 0-3 (mass %) of B_2O_3 and 0-3 (mass %) of SrO ; and

a second step of fixedly forming, on a surface of the first ceramic layer, a second ceramic layer (36; 66) of a ~~predetermined~~-second composition which contains, as main components, 63.0-69.0 (mass %) of SiO_2 , 14.8-17.9 (mass %) of Al_2O_3 , 0.02-0.28 (mass %) of Li_2O , 1.5-6.8 (mass %) of Na_2O , 8.0-14.0 (mass %) of K_2O , 0.2-1.5 (mass %) of CaO , 0.05-0.55 (mass %) of MgO , 0.2-2.2 (mass %) of Sb_2O_3 , 0.1-3 (mass %) of CeO_2 , 0.1-3 (mass %) of B_2O_3 and 0-3 (mass %) of SrO , such that the first ceramic layer is covered at its surface with the second ceramic layer.

12. (Currently Amended) The method ~~of manufacturing the dental prosthesis~~ according to claim 11, wherein viscosity of the first ceramic layer at a temperature of heat

treatment for forming the second ceramic layer in the second step, is higher than that of the second ceramic layer.

13. (Currently Amended) The method of ~~manufacturing the dental prosthesis~~ according to claim 11, wherein the second step for forming the second ceramic layer is implemented by filling, with a ~~predetermined~~ fluidity material, a ~~predetermined~~ void whose inner wall surface is partially constituted by the surface of the first ceramic layer.

14. (Currently Amended) The method of ~~manufacturing the dental prosthesis~~ according to claim 13, wherein the second step is implemented by filling the void with the fluidity material whose fluidity is increased by heating the fluidity material.

15. (Currently Amended) The method of ~~manufacturing the dental prosthesis~~ according to claim 13, wherein the first step for forming the first ceramic layer is implemented by filling, with a ~~predetermined~~ fluidity material, a ~~predetermined~~ void whose inner wall surface is partially constituted by the surface of the frame.

16. (Currently Amended) The method of ~~manufacturing the dental prosthesis~~ according to claim 11, wherein each of the first and second ceramic layers has coefficient of thermal expansion ranging from 9.1×10^{-6} (/ °C) to 10.3×10^{-6} (/ °C) at a temperature ranging from 25 (°C) to 500 (°C).

17. (Currently Amended) A dental porcelain set used for manufacturing a dental prosthesis by fixedly forming at least two ceramic layers on a surface of a frame made of

zirconia, the dental porcelain set being constituted by at least two kinds of porcelains for forming the ceramic layers, the dental porcelain set ~~being characterized by~~ comprising:

a first porcelain forming a first composition which contains, as expressed in terms of oxide, main components in the form of 66.0-72.0 (mass %) of SiO₂, 13.5-17.8 (mass %) of Al₂O₃, 0.05-0.31 (mass %) of Li₂O, 1.3-6.5 (mass %) of Na₂O, 8.7-12.5 (mass %) of K₂O, 0.1-0.5 (mass %) of CaO, 0.01-0.22 (mass %) of MgO, 0.1-0.6 (mass %) of Sb₂O₃, 0-3 (mass %) of CeO₂, 0-3 (mass %) of B₂O₃, and 0-3 (mass %) of SrO; and

a second porcelain forming a second composition which contains, as expressed in terms of oxide, main components in the form of 63.0-69.0 (mass %) of SiO₂, 14.8-17.9 (mass %) of Al₂O₃, 0.02-0.28 (mass %) of Li₂O, 1.5-6.8 (mass %) of Na₂O, 8.0-14.0 (mass %) of K₂O, 0.2-1.5 (mass %) of CaO, 0.05-0.55 (mass %) of MgO, 0.2-2.2 (mass %) of Sb₂O₃, 0.1-3 (mass %) of CeO₂, 0.1-3 (mass %) of B₂O₃, and 0-3 (mass %) of SrO.

18. (Original) The dental porcelain set according to claim 17, wherein each of the first and second porcelains has, after burning thereof, coefficient of thermal expansion ranging from 9.1×10^{-6} (/ °C) to 10.3×10^{-6} (/ °C) at a temperature ranging from 25 (°C) to 500 (°C).

19. (Currently Amended) The dental porcelain set according to claim 17, wherein each of the first and second porcelains is prepared by: mixing compounds which generate oxides at a ~~predetermined~~-glass melting temperature; melting the mixture by heating the mixture; crushing the mixture; subjecting the mixture to a heat treatment that is carried out at a predetermined temperature such that leucite crystal is precipitated; adding pigment and fluorescent material to the mixture; and crushing the mixture.

Amendments to the Drawings:

The attached replacement drawing sheet makes changes to Fig. 14.